



JP-2823

<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)		Application No.	09/475,104
		Filing Date	December 30, 1999
		First Named Inventor	Nagesh Vodrahalli
		Group Art Unit	2823
		Examiner Name	Deven M. Collins
Total Number of Pages in This Submission	13	Attorney Docket Number	42390P6785

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)  <input type="checkbox"/> Extension of Time Request  <input type="checkbox"/> Express Abandonment Request  <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s)  <input type="checkbox"/> Response to Missing Parts/Incomplete Application  <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application)  <input type="checkbox"/> Drawing(s)  <input type="checkbox"/> Licensing-related Papers  <input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition  <input type="checkbox"/> To Convert a Provisional Application  <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address  <input type="checkbox"/> Terminal Disclaimer  <input type="checkbox"/> Small Entity Statement  <input type="checkbox"/> Request for Refund	<input type="checkbox"/> After Allowance Communication to Group  <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences  <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)  <input type="checkbox"/> Proprietary Information  <input type="checkbox"/> Status Letter  <input type="checkbox"/> Additional Enclosure(s) (please identify below): <div style="border: 1px solid black; height: 60px; width: 100%;"></div>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	William W. Schaal, Reg. No. 39,018 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
Signature	
Date	9-24-01

CERTIFICATE OF MAILING/TRANSMISSION			
I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail with sufficient postage in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on: <b>September 24, 2001</b>			
Typed or printed name	Laura R. Robles		
Signature		Date	September 24, 2001

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PTO/SB/17 (12/99)

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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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# FEE TRANSMITTAL for FY 2000

Patent fees are subject to annual revision.

## Complete if Known

Application No. 09/475,104  
Filing Date December 30, 1999  
First Named Inventor Nagesh Vodrahalli  
Examiner Name Deven M. Collins  
Group/Art Unit 2823  
Attorney Docket No. 42390P6785

TOTAL AMOUNT OF PAYMENT (\$) 0.00

## METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:
- Deposit Account Number 02-2666
- Deposit Account Name Blakely, Sokoloff, Taylor & Zafman LLP
- ☒ Charge Any Additional Fee(s) Required Under 37 CFR §§ 1.16, 1.17, 1.18 and 1.20.
- ☐ Applicant claims small entity status. See 37 CFR 1.27.

2. ☐ Payment Enclosed:
- ☐ Check ☐ Credit card ☐ Money Order ☐ Other

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
101	710	201	355			Utility filing fee	
106	320	206	160			Design filing fee	
107	490	207	245			Plant filing fee	
108	710	208	355			Reissue filing fee	
114	150	214	75			Provisional filing fee	

SUBTOTAL (1) (\$) 0.00

### 2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
16	20	18.00	0
2	3	80.00	
Multiple Dependent			

\*\*or number previously paid, if greater, For Reissues, see below

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description
103	18	203	9			Claims in excess of 20
102	80	202	40			Independent claims in excess of 3
104	260	204	135			Multiple Dependent claim, if not paid
109	80	209	40			**Reissue independent claims over original patent
110	18	210	9			**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 0.00

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEE

Large Entity	Small Entity	Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
105	130	205	65			Surcharge - late filing fee or oath	
127	50	227	25			Surcharge - late provisional filing fee or cover sheet	
139	130	139	130			Non-English specification	
147	2,520	147	2,520			For filing a request for reexamination	
112	920*	112	920*			Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*			Requesting publication of SIR after Examiner action	
115	110	215	55			Extension for response within first month	
116	390	216	195			Extension for response within second month	
117	890	217	445			Extension for response within third month	
118	1,390	218	695			Extension for response within fourth month	
128	1,890	228	945			Extension for response within fifth month	
119	310	219	155			Notice of Appeal	
120	310	220	155			Filing a brief in support of an appeal	
121	270	221	135			Request for oral hearing	
138	1,510	138	1,510			Petition to institute a public use proceeding	
140	110	240	55			Petition to revive - unavoidable	
141	1,240	241	620			Petition to revive - unintentional	
142	1,240	242	620			Utility issue fee (or reissue)	
143	440	243	220			Design issue fee	
144	600	244	300			Plant issue fee	
122	130	122	130			Petitions to the Commissioner	
123	50	123	50			Petitions related to provisional applications	
126	180	126	180			Submission of Information Disclosure Stmt	
581	40	581	40			Recording each patent assignment per property (times number of properties)	
146	710	246	355			Filing a submission after final rejection (37 CFR 1.129(a))	
149	710	249	355			For each additional invention to be examined (37 CFR 1.129(b))	
179	710	279	355			Request for Continued Examination (RCE)	
169	900	169	900			Request for expedited examination of a design application	

Other fee (specify)

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 0.00

## SUBMITTED BY

## Complete (if applicable)

Name (Print/Type) William W. Schaal Registration No. 39,018 Telephone (714) 557-3800  
Signature [Signature] Date 09/24/01

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Mvelin

Docket No.: 42390P6785

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED  
SEP 28 2001  
TECHNOLOGY CENTER 2800

In re Application of:

Vodrahalli, et al.

Application No.: 09/475,104

Filed: December 30, 1999

For: High Performance Thermal Interface  
Curing Process for Organic Flip Chip  
Packages

Examiner: Deven M. Collins

Art Group: 2823

### AMENDMENT AND RESPONSE TO THE OFFICE ACTION

Assistant Commissioner for Patents  
Washington, DC 20231-9998

Sir:

In response to the outstanding Office Action, mailed July 05, 2001, please amend the above-identified Application as follows:

#### IN THE SPECIFICATION

Please amend the Specification as follows:

Please replace the paragraph beginning at page 6, line 16 with the paragraph below:

AI  
As shown in Fig. 2b the thermal element 24 is placed onto the thermal epoxy 22 and the epoxy 22 is cured by a microwave generator 28. The microwave generator 28 generates energy at a microwave frequency that is directed into the thermal epoxy 22. The microwave frequency can be selected to cure the thermal epoxy 22 without damaging the integrated circuit 12 or heating the other components of the package 10. Not heating the other package components eliminates package warpage and epoxy pumping that can create air gaps and

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App. No. 09/475,104

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WWS/lrr  
Filed: 12/30/99